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TEST REPORT No. 093416

LABORATORY REF: P093416

CUSTOMER REFERENCE

TORNADO

Sample description as provided by customer

Mass/unit area 22 oz/yd² g/m² Pile Fibre Content 100% RESISTAIN SOLUTION DYED NYLON

Construction Details Tufted Secondary Backing Synthetic

Style LOOP

Order No. 14919

Colour Tasman

Pile Height 4.5 mm

TEST METHOD AS/ISO 9239.1 2003 Reaction To Fire Tests For Floorings Part 1 Determination of the Burning Behaviour Using a Radiant Heat Source. As required by specification C1.10a of the Building Code of Australia.

Tested in accordance with the Carpet Institute Code of Practice for AS/ISO 9239 Testing Version 10 / 0805.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. Clause 9 of AS/ISO 9239 Part 1

Conditioning as specified in BS EN 13238.2001

Sample submitted Date 2/7/2009

Test Date 14/7/2009

ASSEMBLY SYSTEM OVER UNDERLAY details below.

The UNDERLAY used was BRIDGESTONE FIRECHECK 11

Substrate : Non-combustible

Substrate - 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.

Sample Cleaned as Specified in ISO 11379.1997

Initial Test Specimen 1 Length Direction Critical Radiant Flux 2.4 kW/m²
Specimen 1 Width Direction Critical Radiant Flux 2.3 kW/m²
Full tests carried out in the Width Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	2.3	2.2	2.3	2.3
Smoke Development Rate (%.min)	472	421	469	454

The values quoted below are as required by Specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia. The Critical Radiant Flux quoted is the value at Flame-Out.

MEAN CRITICAL RADIANT FLUX 2.3 kW/m²

MEAN SMOKE DEVELOPMENT RATE 454 %.min

OBSERVATIONS The samples shrunk away from the heat source then ignited

	Authorised Signatory M. B. Webb
	Technical Manager <i>[Signature]</i>
	DATE 14/7/2009
	Measurement Science and Technology No. 15393

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Page 2 only shows the time required in seconds for the flame front to reach each time marker, the total test time and the CHF value at 30 minutes (if applicable).

The laboratory allows the use of this page of the report without the use of page 2.

1003 05 07

Pyrometer temperature
 On calibration 576.6 °C
 Start of test run 577.3
 During test run 577.9

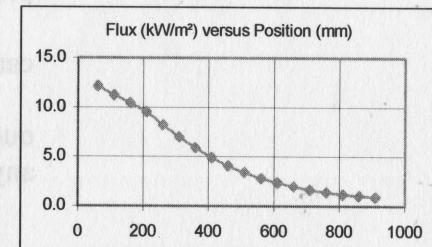
Chamber temperature
 On calibration 99.2 °C
 Start of test run 100.9
 During test run 101.5

Clause 7.2.2 AS/ISO 9239 The pyrometer should be $\pm 5^\circ$ of calibration temperature.
 The Chamber temperature should be $\pm 10^\circ$ of calibration temperature
 The Holding Tension on Specimen Frame was 2 Nm

TIME FOR EACH SPECIMEN TO REACH EACH MARKER IN SECONDS

Specimen	50	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860
1	150	154	183	198	215	233	254	283	320	507	692	1043	1621	/				
2	143	146	175	206	235	259	291	338	399	572	619	987	1291	/				
3	146	149	174	206	220	242	278	298	353	545	739	1239	1638	/				

FLUX CALIBRATION: FLX08001



TESTS

SMOKE PRODUCTION

BURNING CHARACTERISTICS

Specimen	Maximum Light Attenuation (%)	Smoke Development Rate (%.min)	Burn Length at Flame Out (mm)	Time To Burn Out (s)	Critical Heat Flux at 30min (kW/m²)
Initial Test: Length	83	419	608	1,709	
Specimen Tests: Width					
1	86	472	620	1,748	(n/a)
2	82	421	631	1,957	2.3
3	83	469	618	1,670	(n/a)
Mean	84	454	623	1,792	2.3



ACCREDITED FOR
**TECHNICAL
 COMPETENCE**

Measurement Science and
 Technology No. 15393

Authorised Signatory
M B Webb
 Date 14/7/2009

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The laboratory does not allow the use of this page of the report without the use of page 1.

This page alone has no validity under specification C1.10a Fire Hazard Properties (Floors) of the Building Code of Australia.

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